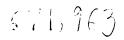
WEST Search History



DATE: Wednesday, June 05, 2002

Set Name side by side		Hit Count	Set Name result set
DB =PGPB,JPAB,EPAB,DWPI,TDBD; PLUR =YES; OP = ADJ			
L7	((urethane or polyurethane) near5 (epoxy or epoxide)) and (((underfill\$4 or scalant or encapsula??\$2 or adhesive) near10 ((urethane or polyurethane) near5 (epoxy or epoxide))) and ((carbon adj (black or fiber or fibre)) or graphite or ((nickel or copper or aluminum or palladium or silver or gold or platinum or Ni or Cu or Al or Ag or Au or Pt or Pd) near5 (powder or particle or filler)))) and (underfill\$4 or sealant or encapsula??\$2 or adhesive)	107	L7
DB = U	SPT; PLUR : YES; OP : ADJ		
L6	14 and ((523/\$.ccls.) or (525/\$.ccls.))	90	L6
L5	14 and ((523/\$.eels.) or (525/\$.eels.))	90	L5
L4	12 and 13	667	L4
L3	(carbon adj (black or fiber or fibre)) or graphite or ((nickel or copper or aluminum or palladium or silver or gold or platinum or Ni or Cu or Al or Ag or Au or Pt or Pd) near5 (powder or particle or filler))	171200	L3
L2	(underfill\$4 or sealant or encapsula??\$2 or adhesive) near1011	2151	L2
L1	(urethane or polyurethane) near5 (epoxy or epoxide)	19094	L1

END OF SEARCH HISTORY

9 (0-10:502 Generate Collection

L7: Entry 91 of 107

File: DWPI

Oct 18, 1985

DERWENT-ACC-NO: 1985-299693 DERWENT-WEEK: 198548

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TITLE. Heat-curable epoxy! rosin adhesive - comprising glycidyl ether epoxy! resin, modified epoxy prepd. from urethane prepolymer and epoxy resin, and potential hardening agent

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SUNSTAR GIKEN KK

SUNZ

PRIORITY-DATA: 1984JP-0063763 (March 30, 1984)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 60206882 A

October 18, 1985

004

INT-CL (IPC): C08G 59/20; C09J 3/16

ABSTRACTED-PUB-NO: JP60206882A BASIC-ABSTRACT:

Adhesive of single liq. type for automobiles comprises essentially (A) epoxy resin of glycidyl ether type, (B) modified epoxy resin prepd. by reacting (B1) urethane prepolymer prepd. by reacting polytetrame thylene ether glycol and diisocyanate and contg. terminal isocyanate gp. and (B2) epoxy resin contg. at least one OH gp. and (C) potential hardening agent.

Pref. (A) is diglycidyl ether of 2.2-bis(4-hydroxyphenyl) propane (bisphenol-A) prepd. from polyhydric phenol and epichlorohydrin, diglycidyl ether of adduct of bisphenol A with ethylene oxide, reaction prod. of aliphatic polyol and epichlorohydrin (e.g. triglycidyl ether of glycerin or diglycidyl ether of 1,6-hexane diol) or hydrogenated prod. of polyhydric alcohol or adduct with alkylene oxide and epichlorohyd rin. (A) is liq. at room temp, and has pref. epoxy equiv. of up to 500. (B1) is prepd, by reacting polytetramethylene ether glycol having mol, wt. of 500-5,000 with disocyanate (equiv. ratio of NCO/OH) of 1.2-3) at 60-120 deg.C for 1-6 hr. (B) is prepd. by reacting epoxy resin contg. at least one OH gp. (e.g. glycidyl ether of bisphenol A or aliphatic polyol) (equiv. ratio of NCO/OH of at least 1) at 80-100 deg.C. (C) is pref. dicyanodiamide, 4,4'-diaminodiphenylsulphone, 2-n-heptane decylimidazole, isophthalic acid dihydrazide, N,N-dialkyl urea, N,N-dialkylthiourea or melamine deriv.) and blended in amt. 1-30 wt.pts. per 100 pts. of (A). Adhesive compsn. may be added with filler (e.g. CaCO3, clay, SiO2, tale, <u>carbon black</u> or metal powder), anticorrosive pigment (e.g. phosphate or Zn chromate), plasticiser and/or solvent.

ADVANTAGE - Adhesive compsn. is usable for bonding steel plates for painting electrodepositing paint.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: HEAT CURE POLYEPOXIDE RESIN ADHESIVE COMPRISE GLYCIDYL ETHER POLYEPOXIDE RESIN MODIFIED EPOXY PREPARATION URETHANE PREPOLYMER EPOXY RESIN POTENTIAL HARDEN **AGENT**

DERWENT-CLASS: A21 A25 A81 G03



Generate Collection

Print

JF 40-235877

L7: Entry 90 of 107

File: DWPI

Nov 22, 1985

DERWENT-ACC-NO: 1986-011136 DERWENT-WEEK: 198602

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TITLE. Epony! recin adhesive for automobiles - comprises glycidyl ether epoxy! resin, urethane!-modified epoxy! resin, curing agent and electrically conductive material

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SUNSTAR GIKEN KK

SUNZ

PRIORITY-DATA: 1984JP-0092167 (May 8, 1984)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

DESCRIPTOR

MAIN-IPC

JP 60235877 A

November 22, 1985

005

JP 91049692 B

July 30, 1991

000

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

JP60235877A JP91049692B May 8, 1984 May 8, 1984 1984JP-0092167 1984JP-0092167

INT-CL (IPC): B23P 11/00; B62D 65/00; C09J 3/16; C09J 163/02

ABSTRACTED-PUB-NO: JP60235877A

BASIC-ABSTRACT:

Adhesive is obtd. by mixing a one-pack heat-uncurable epoxy resin adhesive consisting of (a) glycidyl ether type epoxy resin, (b) modified epoxy resin formed by reacting urethane prepolymer contg. terminal isocyanate gp. with epoxy resin having at least one hydroxy gp. per molecule and (c) latent curing agent, with (d) electrically conductive material.

Ratio of (a), (b), (c) and (d) is 100:20-200:1-30:2-200. (d) consists of carbon powder and/or graphite powder. To the adhesive is opt. added a rust-proofing agent. The urethane prepolymer contg. terminal isocyanate gp. is obtd. by reacting polytetramethylene ether glycol with diixocyanate, in the ratio 1.2-3 equivs. isocyanate gp. per hydroxy gp. at 60-120 deg.C (c) is dicyandiamide 4,4'-diaminodiphenyl sulphone imidazole deriv., isophthalic dihydrazide and N,N'-dialkyl urea deriv.

USE - The adhesive is pref used for adhesion of coated steel plate to be electrically coated.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: POLYEPOXIDE RESIN <u>ADHESIVE</u> AUTOMOBILE COMPRISE GLYCIDYL ETHER POLYEPOXIDE RESIN POLYURETHANE MODIFIED POLYEPOXIDE RESIN CURE AGENT ELECTRIC CONDUCTING MATERIAL

DERWENT-CLASS: A21 A81 G03 P56 Q22



JP 4?-17052 Generate Collection

L7: Entry 105 of 107

File: DWPI

Sep 13, 1974

DERWENT-ACC-NO: 1975-44920W DERWENT-WEEK: 197527 COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: Steel bonding compil - conta polyurethane epoxy blend adhesive

PATENT-ASSIGNEE:

CODE **ASSIGNEE** SEKI SEKISUI CHEMICAL KK

PRIORITY-DATA 1972JP-0129154 (December 21, 1972)

PATENT-FAMILY:

MAIN-IPC **PAGES** LANGUAGE PUB-DATE PUB-NO 000

September 13, 1974 JP 49097052 A 000 July 29, 1976 JP 76025251 B

INT-CL (IPC): C09J 3/16

ABSTRACTED-PUB-NO: JP49097052A

BASIC-ABSTRACT:

Adhesive compns., useful for bonding steel sheets, are prepd. by mixing a modified urethane resin with an epoxy resin and a curing agent. In an example, a mixt. of 230 g Epikote 828 (I) and 60 g xylylene diisocyanate was heated to 80 degrees, mixed dropwise with 137 g poly(oxytetramethylene)glycol, heated 2 hr at 90 degrees, mixed at 40 degrees with 24 g glycidol and 0.3 ml dibutyltin dilaurate, and heated to 60 degrees until the isocvanate group disappeared to give Epikote 828-glycidol-poly(oxytetramethylene)glycol-xylylene dissocyanate copolymer which (20 parts) was mixed with 80 parts I and 42 parts of a mixt. of dicyanamide 6, imidazole 1, an Al powder 30, and silica 5 parts to give an adhesive compn. The adhesive compn. was coated on surface-treated steel sheets and they bonded and cured 60 min. at 150 degrees. The bonding strength was 320 kg/cm2 at-20 degrees and 226 kg/cm2 at +80 degrees.

TITLE-TERMS: STEEL BOND CONTAIN POLYURETHANE EPOXY BLEND ADHESIVE

DERWENT-CLASS: A21 A25 A81 G03

CPI-CODES: A05-A01E1; A05-G01E1; A07-A03; A08-D01; A12-A05; G03-B02E;

Multipunch Codes: 012 028 038 04- 040 150 157 163 199 203 209 212 220 221 226 231 240 250 262 273 292 336 341 344 346 359 37& 37- 400 47& 473 477 597 600 609 689 692 720 721 724 726

Print Generate Collection

(0) (3,5)

L7: Entry 59 of 107

File: DWPI

May 10, 1996

DERWENT-ACC-NO: 1997-064057

DERWENT-WEEK: 199706

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TITLE: Westroconductive adhesive compsn. - contains epoxyl resin, hardener, oligo-ether-urethane-disepoxide, 2,3-epoxy-tetra hydro-dicyclo- penta:dienyl-capronate, alpha,beta-di:allyl etner of giycerine, and powdered silver@

INVENTOR: ERYGINA, V S; THAEVA, L A ; VOROBEV, G A

PATENT-ASSIGNEE:

CODE **ASSIGNEE ERYGI** ERYGINA V S

PRIORITY-DATA: 1988SU-4394019 (March 21, 1988)

PATENT-FAMILY:

MAIN-IPC **PAGES** LANGUAGE **PUB-DATE** PUB-NO C09J009/02 005 May 10, 1996 SU 1628508 A1

APPLICATION-DATA: DESCRIPTOR APPL-NO APPL-DATE PUB-NO

1988SU-4394019 March 21, 1988 SU 1628508A1

INT-CL (IPC): C09 J 9/02; C09 J 163/02; C09 J 163/02; C09 J 175:04

ABSTRACTED-PUB-NO: SU 1628508A

BASIC-ABSTRACT:

The compsn. contains in pts.wt.: epoxy bisphenol A resin with optical density not less than 0.8 30-50; specified hardener 18.0-24.4; oligo-ether -urethane-di:epoxide 90-110; 2,3-epoxy:tetrahydro- dicyclopentadienyl-capr onate 30-60, alpha, beta-diallyl ether of glycerine 10-17; and fine-dispers ion powdered silver 700-800. The hardener is 33.3% soln. of amino:alkylimi dazoline in polyethylene-polyamine. Plasticiser is alpha,beta-diallyl ether of glycerine, and modifier is oligo-ether-urethane-di-epoxide. The components are combined by mixing according to standard technology. Tests show that the compsn. (examples 1-3) has viscosity (number of circle) 6.5-7.0, lifetime 3-4.5 unit, hardening mode 80/10 deg C, limit of shear strength 2.9-3.5 MPa, electrical vol. resistivity (1-3) x 10-4 omega.cm, and bending elasticity of film 1 cm.

USE - In electroconducting adhesive compsns, which can be used for assembly of sensitive elements of semiconductor devices and large integral circuits.

ADVANTAGE - Reduced hardening temp. to 80 deg.C and increased strength of adhesive joint up to 3.5 MPa with retained high electrical conductivity and elasticity.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: ELECTROCONDUCTING ADHESIVE COMPOSITION CONTAIN POLYEPOXIDE RESIN HARDEN



Generate Collection Print JP 50-35232

L7: Entry 104 of 107

File: DWPI

Apr 3, 1975

DERWENT-ACC-NO: 1975-83696W

DERWENT-WEEK: 197551

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TITLE: Urethane-modified epoxy resin adhesive - for metal-metal bonding

PATENT-ASSIGNEE:

ASSIGNEE SEKISUI CHEMICAL KK SEKI

PRIORITY-DATA: 1973JP-0079131 (July 12, 1973)

PATENT-FAMILY

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 50035232 A

April 3, 1975

000

ABSTRACTED-PUB-NO: JP50035232A

BASIC-ABSTRACT:

Adhesive compsns... useful for bonding metal to metal, are prepd. from a mixt. of a hardener and a resin compsn. comprising 50-95% of expoxy resin and 5-50% of <u>urethane-modified epoxy</u> resin. Thus, a mixt. of 270 g Epikote-828 (I) and 17.4 g tolylene diisocyanate was <u>mixed</u> dropwise at 90 degrees C with 43 g polyoxytetramethylene glycl to give a urethane prepolymer, which reactes with exposy resin at 100 degrees C to give a urethane-modified exposy resin (II). A resin compsn. of 30 pts (II) and 70 pts (I) was mixed with dicayandiami de 6, imisazole 1, and <u>Al powder</u> 30, and silica 5 parts to give an <u>adhesive</u> compsn. which bonded steel sheets to give a laminate with peel strength 20 kg/25 mm. TITLE-TERMS: <u>URETHANE MODIFIED EPOXY RESIN ADHESIVE</u> METAL METAL BOND

DERWENT-CLASS: A21 A81 G03

CPI-CODES: A05-A01E1; A05-G01E; A08-D01; A10-E01; A12-A05C; G03-B02E;

Multipunch Codes: 012 028 04- 040 150 199 203 209 220 221 226 231 240 250 273 333 336 341 344 346 359 400 44& 446 47& 477 48- 597 600 609 692 720 721 725